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APPLICATION NO.	F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/728,932		12/08/2003	Toshimitsu Konuma	0756-7221	9654	
31780	7590	10/21/2004		EXAMINER		
ERIC ROE	BINSON		NGO, HUYEN LE			
PMB 955 21010 SOUTHBANK ST.				ART UNIT	ART UNIT PAPER NUMBER	
POTOMAC	POTOMAC FALLS, VA 20165			2871		
				DATE MAILED: 10/21/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Occurred	10/728,932	KONUMA, TOSHIMITSU					
Office Action Summary	Examiner	Art Unit					
	Julie-Huyen L. Ngo	2871					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on							
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>6-16</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.	Claim(s) 6-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 6-16 is/are rejected. Claim(s) is/are objected to.						
Application Papers							
9)☐ The specification is objected to by the Examiner.							
)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the		· ·					
Replacement drawing sheet(s) including the correcti 11) The oath or declaration is objected to by the Ex	, , , ,	• •					
,	animer. Note the attached Office	Action of 101111 10-132.					
 Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 08/081,705. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
· Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/25/04.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite atent Application (PTO-152)					

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DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 6-9 and 12-15 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 13,14 and 16 of U.S. Patent No. 6693696B1. Although the conflicting claims are not identical, they are not patentably distinct from each other because the spacing in said substrates being less than 3.5 μm recited in claim 1 of the instant application is in a range of 5 μm or less for the interval of the substrates as recited in claim 16 of U.S. Patent No. 6693696B1. A pair of orientation films must be inherently provided adjacent to (near to) and between said pair of substrates.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made

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to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 6-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kanemoto et al. (US5250214A) in view of Nakagawa et al. (US4983023) and in further view of Tilton et al. (US5327269).

With respect to claims 6, 10-12 and 16, Kanemoto et al. teach (Fig. 2) forming a display device comprising:

- a pair of substrates 11/21;
- a liquid crystal layer 15 provided been said pair of substrates and comprising a nematic liquid crystal having positive dielectric anisotropy (col. 5 lines 52-56);
- a pair of orientation films 13/23 provided over adjacent to (near to) and between said pair of substrates respectively;

wherein

said orientation films have a surface tension of 40 dyne/cm or more (col. 26 lines 61-66);

(Claims 7 and 13)

each of said orientation films comprises a polyimide.

(claims 9 and 15)

a first electrode provided over one of said substrates; and a second electrode
 provided over the other of said substrates.

(Claims 8 and 14)

 It is well known in the art for a display device to function as a reflective –type display device with a reflection layer on surface of lower substrate for reflecting ambient light

However, Kanemoto et al. and conventional art fail to disclose a display device having spacing between the substrates being less than 3.5 μ m.

Nakagawa et al. teach (col. 3 lines 55-60) forming a display device having spacing between the pair of substrates being less than 3.5 μm for obtaining high quality display.

Therefore, it would have been obvious for one having ordinary skill in the art to modify Kanemoto et al. display device with the space between the substrates being less than 3.5 µm for obtaining high quality display, as taught by Nakagawa et al.

With respect to the pair of orientation films having antiparallel orientation directions to each other.

Tilton teach (col. 2 lines 24-31) forming a LVD comprising pair of orientation films having antiparallel orientation directions to each other for fast switching between the cell states because the motion of the liquid crystal material is limited.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the display device of Kanemoto et al. in view of Nakagawa et al. with a pair of orientation films having antiparallel orientation

directions to each other for fast switching between the cell states because the motion of the liquid crystal material is limited, as taught by Tilton et al.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Julie-Huyen L. Ngo whose telephone number is (571) 272-2295. The Examiner can normally be reached on T-Friday.

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If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Mr. Robert H. Kim can be reached at (571) 272-2293.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1562.

October 15, 2004

Julie Huyen L. Ngo
Primary Examiner
Art Unit 2871